

THE WORKS

MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS

Maximo Asset Management Software Implementation

T&PW Meeting
8 November 2012

- To update Maximo Software in Water Treatment and Property Services
- To install Maximo Software in Water Distribution, Surface Waters and Sewers
- In Partnership with IT Department
- Enveloped in an Asset Management Framework

The Proposal

- Asset Management is an integrated set of processes to minimize the life cycle costs of infrastructure assets, at an acceptable level of risk, while continuously delivering established levels of service.
- Earlier work done in asset management



What is Asset Management ?

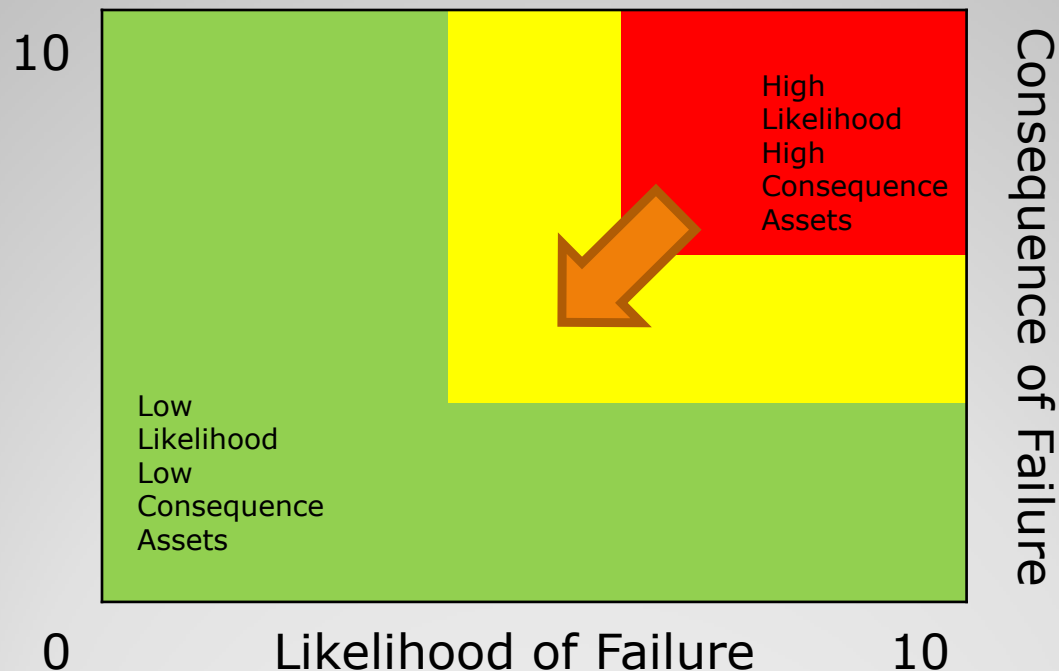
1. What is the current state of my assets?
2. What is my required level of service?
3. Which assets are critical to sustained performance?
4. What are my best O&M and CIP investment strategies?
5. What is my best long-term funding strategy?

Five Core Asset Management Questions

- Water Replacement Cost \$1.5B
 - 1000 miles of pipe
 - 8000 hydrants, 16,500 valves, 15,000 manholes
 - Treatment Facilities
- Sanitary Sewer Replacement Cost \$1.45B
 - 832 miles of pipe
 - 5.5 miles of tunnels, 10 lift stations
- Stormwater Replacement Cost \$713M
 - 517 miles of pipe
 - 15.4 miles of tunnels, 10 ponds, 387 outfalls
 - 25 pumps stations

*** Infrastructure Assets ***

- Asset Management Creates a Paradigm Shift to Risk Management and Optimal Decision Making



Asset Management End Game

- Rigorous and Defensible Decision Making
- Better Managed Risk (not Chance)
- Lower Costs
- Improved Public Confidence
- Tool for Good Long-term Financial Management
- Possible Higher Priority Ranking for SRF
- Improved Coordination & Communication
- Improved Regulatory Compliance
- Effective Information Transfer and Knowledge Retention

Benefits of Asset Management

- The implementation of Maximo Version 7.5 is the major component in building a Comprehensive Asset Management Program



Maximo: A Major Cog in Asset Management

- Implementation of Maximo 7.5 for Water and Sanitary Sewer & Stormwater Divisions
- Business process configuration workshops
- Built upon asset management framework
- Data migration from current databases
- Training for system administrators, core team, and end-users
- Technological architectural analysis to define and design the system architecture

Maximo Upgrade & Implementation

Matt Brink- PW Financial Analyst/Project Co-Chair

- Starboard is an AAA-accredited, IBM Premier Business Partner
- Partnering with GHD on the project
- Implemented Maximo 7.5 for the Knoxville Utility Board, which serves more than 439,000 customers, including business process redesign
- Upgraded The Metropolitan Water District of Salt Lake & Sandy from Maximo 5.2 to Maximo 7.5

Starboard Consulting